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sharply folded and faulted. A heavy mantle of glacial drift covers most of the county, and details of structure are learned only from mine workings. No estimate is made of the amount of coal available.

W. B. W.

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*Geology and Water Resources of Tularosa Basin, New Mexico.* By O. E. MEINZER and R. F. HARE. U.S. Geol. Survey, Water Supply Paper 343, 1915, pp. 317, pls. 19, figs. 51.

The Tularosa Basin is shown to be a down-faulted block between highlands of Cretaceous, older Mesozoic (?), and Carboniferous sedimentary rocks lying upon granite. The Pennsylvanian Manzano group of Red Beds here has a thickness of about 2,500 feet, and contains much gypsum. Tertiary intrusives of several types cut the older rocks. The valley bottom is covered with Quaternary deposits, comprising water-laid gravels and finer sediments several hundred feet thick, together with modern dune sands and saline deposits. There are two recent lava flows, with well-preserved cinder cones and craters.

An unusual feature of this valley is an area of 270 square miles of dunes of gypsum sand, still in motion. The gypsum is derived from deposits on the floor of a large alkali flat to windward (west) of the dune area. The gypsum of the playa in turn was derived from the bedded gypsum in the Manzano group, the solution of which has given rise to numerous sink-holes, locally so abundant as to have produced karst topography.

C. W. T.

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*Limestone Road Materials of Wisconsin.* By W. O. HOTCHKISS and EDWARD STEIDTMAN. Wisconsin Geol. Survey, Bull. 34, 1914. Pp. 136, pls. 41, figs. 2.

The importance of thorough investigation of road-building materials is shown by the fact that this state appropriated approximately \$1,250,000 for highway purposes in 1914. This report treats of limestone materials only. Part I describes various standard tests on road materials and emphasizes the importance of thorough testing. The chief limestone horizons are discussed briefly. Part II takes up by counties the limestone areas of the state. There is a brief description of limestone resources, with results of samples tested, and 40 areal geology maps of different counties. Wisconsin is said to be more abundantly supplied with road materials than any of the neighboring states.

W. B. W.